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Atlanta, GA 30318 • (404) 352-4147

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-7367

MEMORANDUM

85189

TO: Carol Walsh
EPA, Region IV

FROM: Brent Jacobs *BBJ*
TAT, Region IV

THRU: Conley B. Phifer *CBP*
TATL, Region IV

SUBJECT: Peachtree Industrial Mercury Spill,
Norcross, Gwinnett County, Georgia
TDD #04-8712-24-1428
TAT #04-F-01323

DATE: 8 April 1988

Situation

On 29 December 1987, Technical Assistance Team (TAT) members Virginia Harmon and Brent Jacobs were tasked by EPA OSC Carol Walsh under Technical Direction Document #04-8712-24 to respond to a mercury spill at 6767 Peachtree Industrial Boulevard, Norcross, Gwinnett County, Georgia (Figure 1 - Site Location Maps). The information related by OSC Walsh stated that approximately one pint of mercury was spilled from a dumpster onto an asphalt parking area at this address. Walsh also stated that the Georgia Environmental Protection Division (EPS) and Gwinnett County Hazardous Materials Response Team had responded and were at the site.

Summary

TAT members Harmon and Jacobs arrived at the site at 1635 hours on 29 December 1987 and met with OSC Walsh, Mark Smith of the Georgia EPD, and Lieutenant Puritt of the Gwinnett County Hazardous Materials Response Team. Access to the spill area had been controlled by the Gwinnett County Hazmat team (Figure 2 - Site Diagram).

After the initial site investigation OSC Walsh tasked the ERCS contractor at 1645 hours to respond to the spill. The ERCS

Roy F. Weston, Inc.

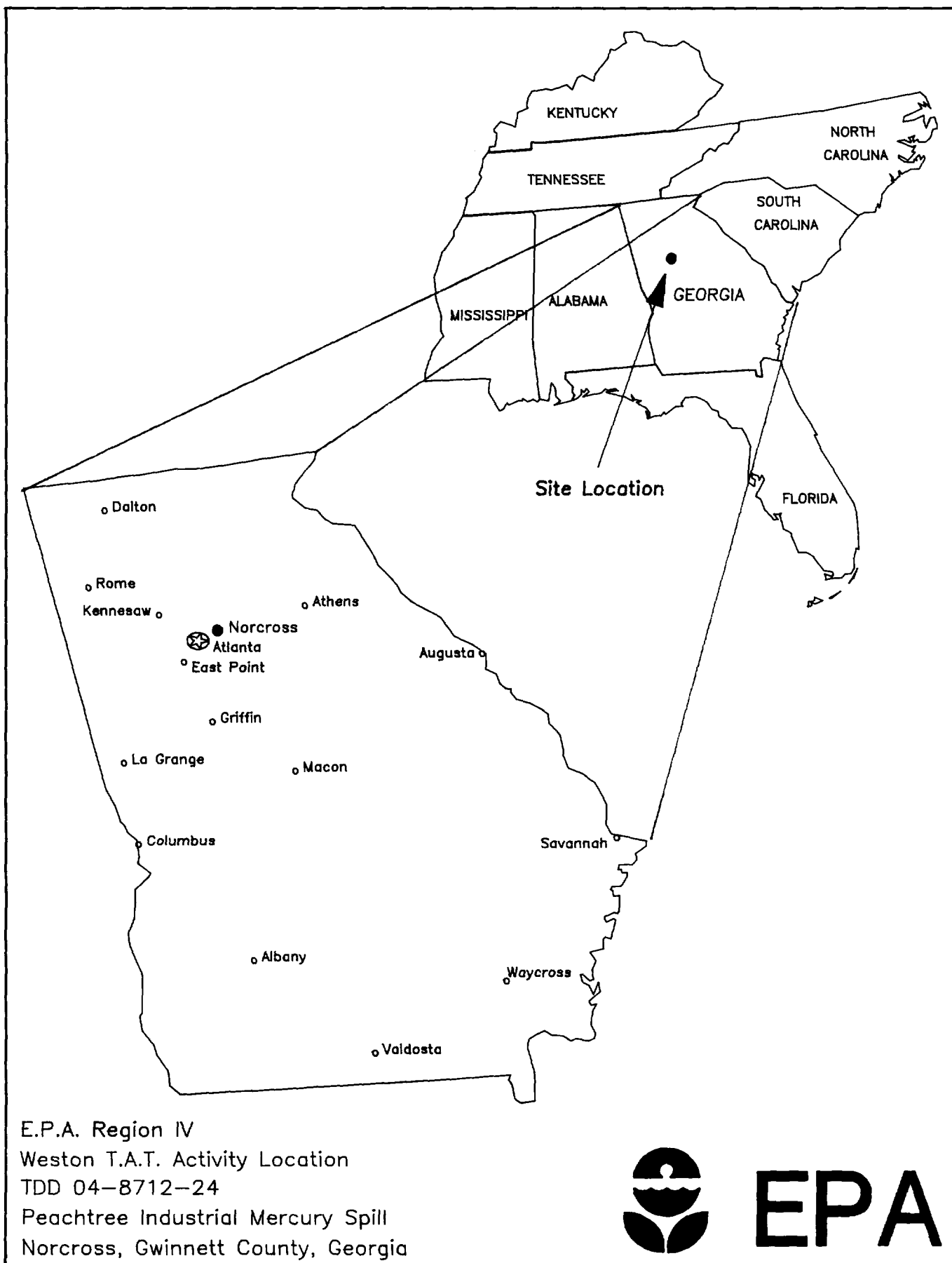
SPILL PREVENTION & EMERGENCY RESPONSE DIVISION

In Association with ICF Technology Inc., C.C. Johnson & Associates, Inc., Resource Applications, Inc.,
Geo/Resource Consultants, Inc., and Environmental Toxicology International, Inc.

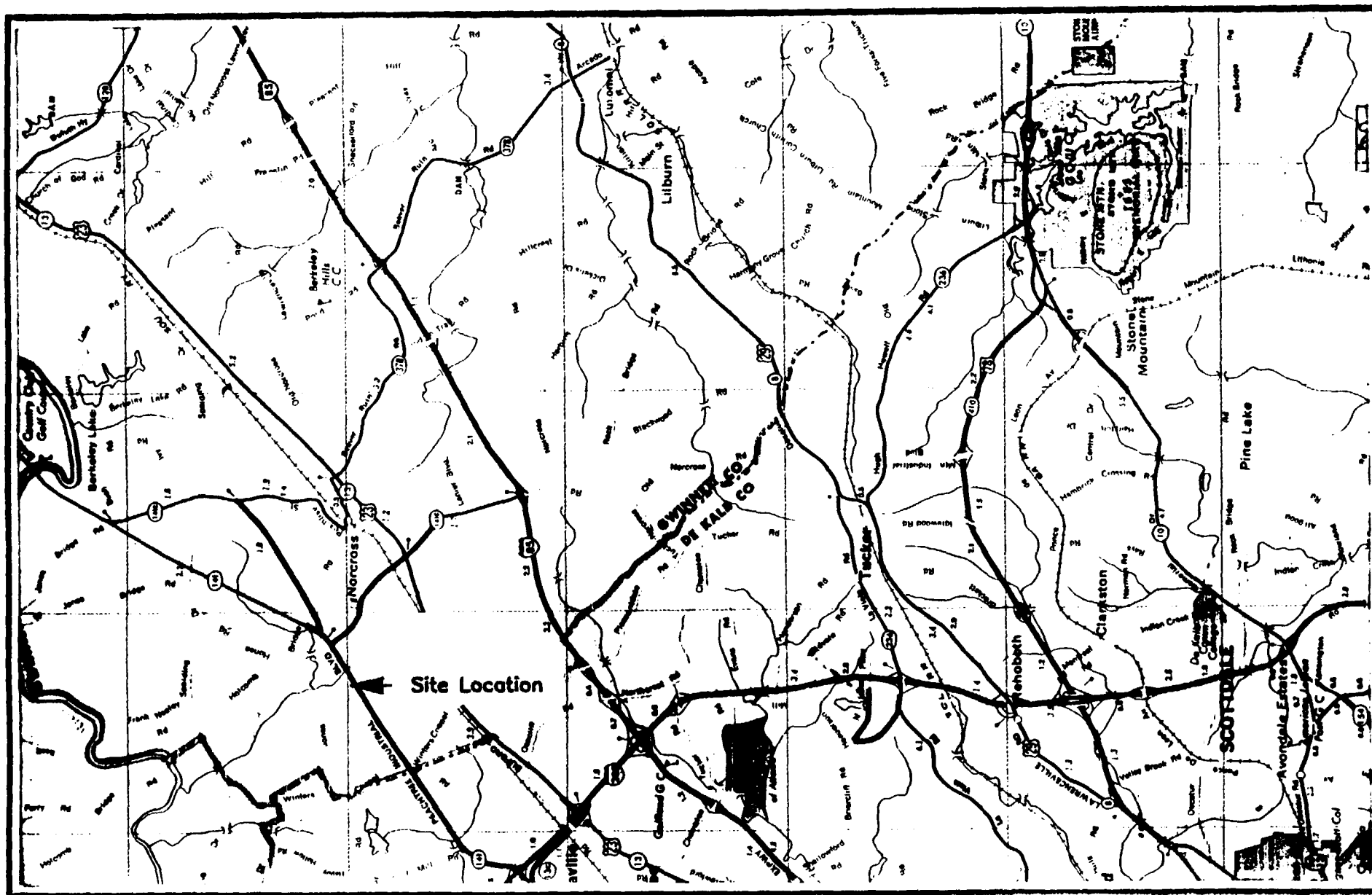
contractor arranged for mobilization of a special vacuum unit to the site to collect the mercury from the parking area. At 0115 hours on 30 December 1987 the special mercury vacuum unit arrived on-site and the cleanup began. At 0420 hours the cleanup process was completed and an 8 oz. jar of mercury weighing approximately 12 to 14 pounds had been collected. The parking area was then coated with a sealer to prevent vaporization of any residual mercury. Access to the dumpster that the mercury was suspected of spilling from was controlled until the contents could be inspected and decontaminated on 30 December 1987.

On 30 December 1987 at 1040 hours ERCS began inspecting and decontaminating the debris in the dumpster. The mercury from the decontamination process was collected in a visqueen lined metal bin. After completing this process, the dumpster and bin was then vacuumed clean of approximately one-fourth pint of mercury. In addition to this mercury, 35 lbs of mercury in plastic coated bottles in the original shipping container was found in the dumpster. Seven full bottles weighing approximately 5 lbs each and three empty bottles were recovered from the dumpster. All pertinent information from the shipping container and bottles was photographed and recorded (Attachment A - Photographs #8, 9, 10 and 11). The shipping container from D. F. Goldsmith Chemical and Metal Corporation located at 909 Pitner Avenue, Evanston, Illinois was addressed to Micromeritics, 1 Micromeritics Drive, Norcross, Georgia 30093. The ten mercury bottle labels all had the lot number #112587. The mercury recovered during the cleanup was subsequently sold on 24 February 1988 by ERCS to B. F. Goldsmith in Evanston, Illinois for recycling. Approximately \$91.00 was recovered and credited to the EPA by the ERCS contractor.

FIGURE 1
Site Location Maps



EPA



WESTON SPER Region IV TAT

SITE: Gwinnett County, Norcross, Ga.

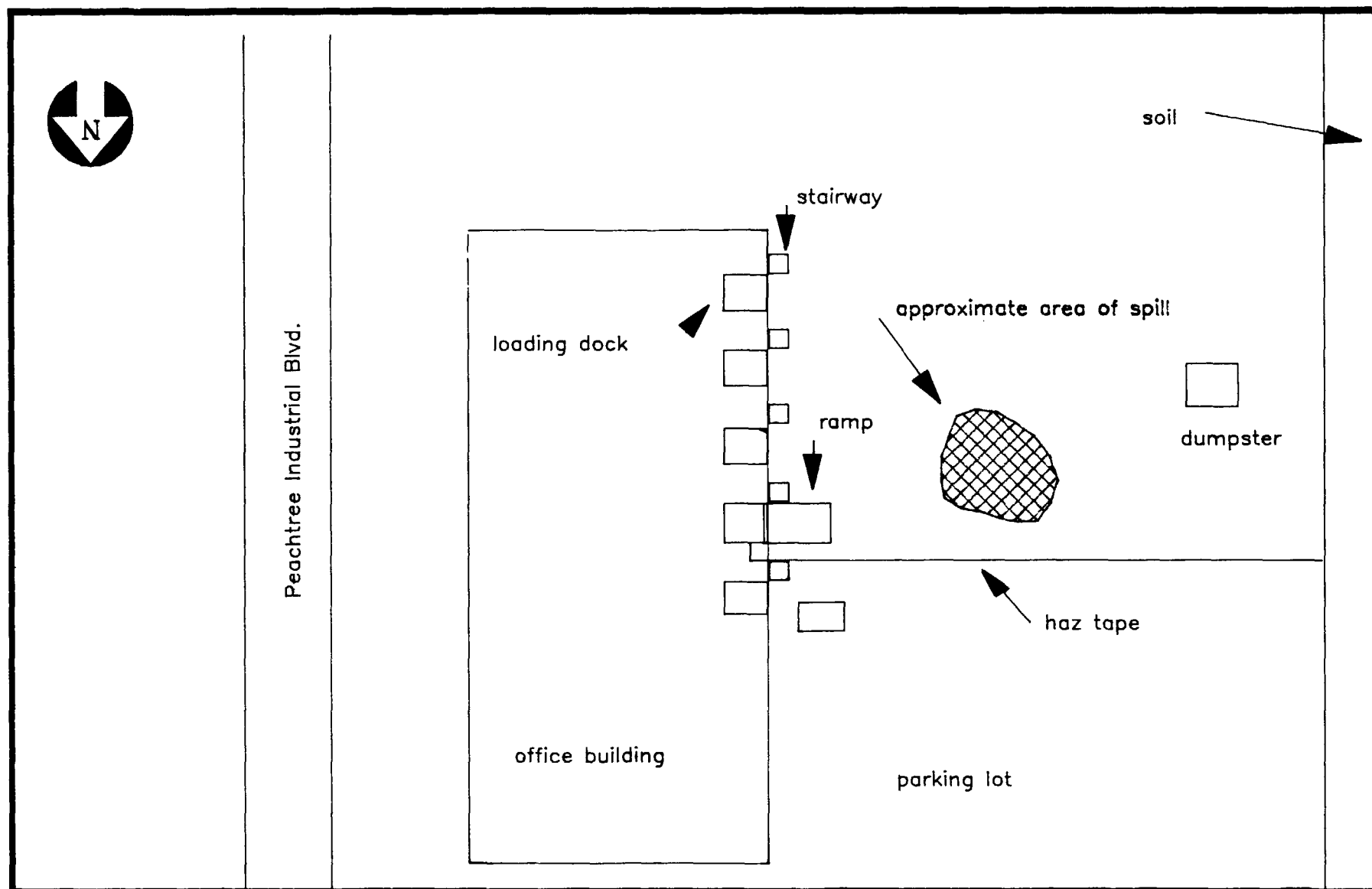
ACTIVITY DESCRIPTION: Site Location

IDD NO.: 04-8712-24

Peachtree Industrial Mercury Spill

DATE: 11 January 1988

FIGURE 2
Site Diagram



WESTON SPER Region IV TAT

ACTIVITY DESCRIPTION: Figure 3- Site Diagram

Norcross, Gwinnett County, Georgia

SITE: Peachtree Industrial Mercury Spill

TDD NO.: 04-8712-24

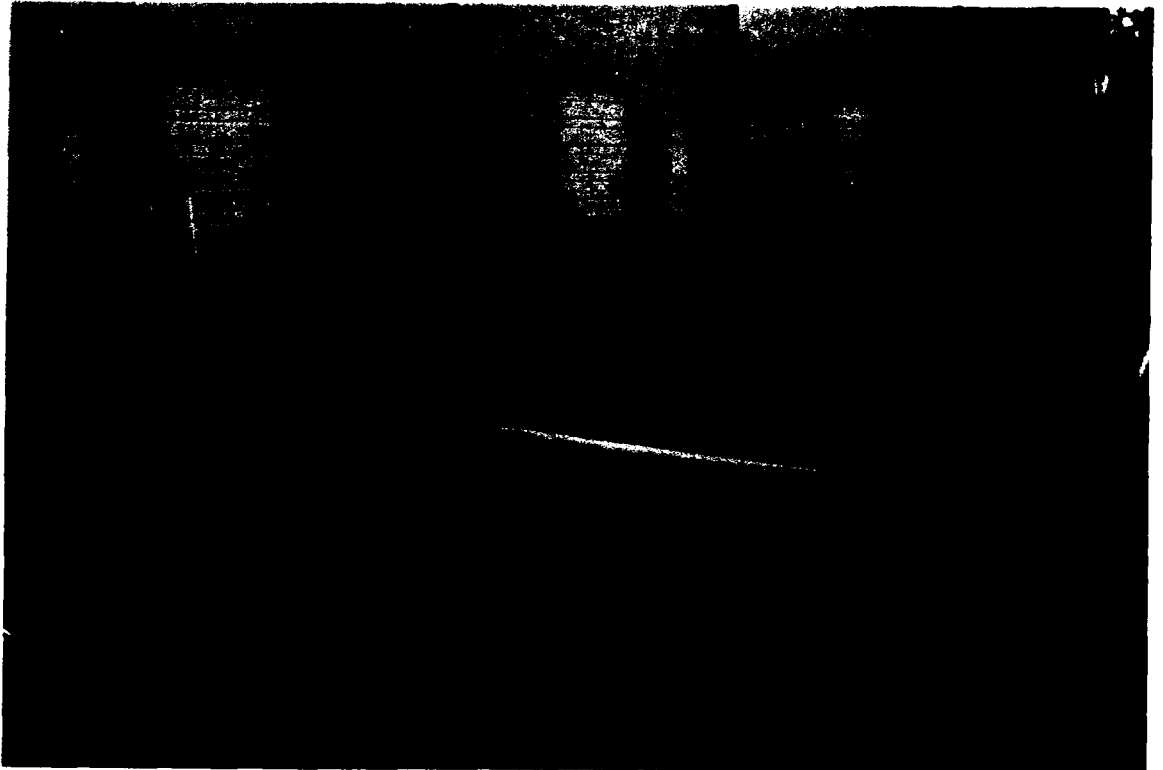
DATE: 30 December 1987

ATTACHMENT A

Photographs

POOR LEGIBILITY

**PORTIONS OF THIS DOCUMENT
MAY BE UNREADABLE, DUE TO
THE QUALITY OF THE
ORIGINAL**



PHOTO# 1
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Mercury spilled on asphalt behind 6767 Peachtree Industrial businesses.

Location: Peachtree Industrial Mercury Spill

Date: 12/29/87

Time: 1645

Photographer: Brent B. Jacobs

Witness: Carol Walsh

Film: Fuji **ASA:** 100

Location of Negative:
TAT Office

TDD#: 04-8712-24



PHOTO# 2
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Mercury in the asphalt parking lot prior to the beginning of the cleanup.

Location: Peachtree Industrial Mercury Spill

Date: 12/30/87

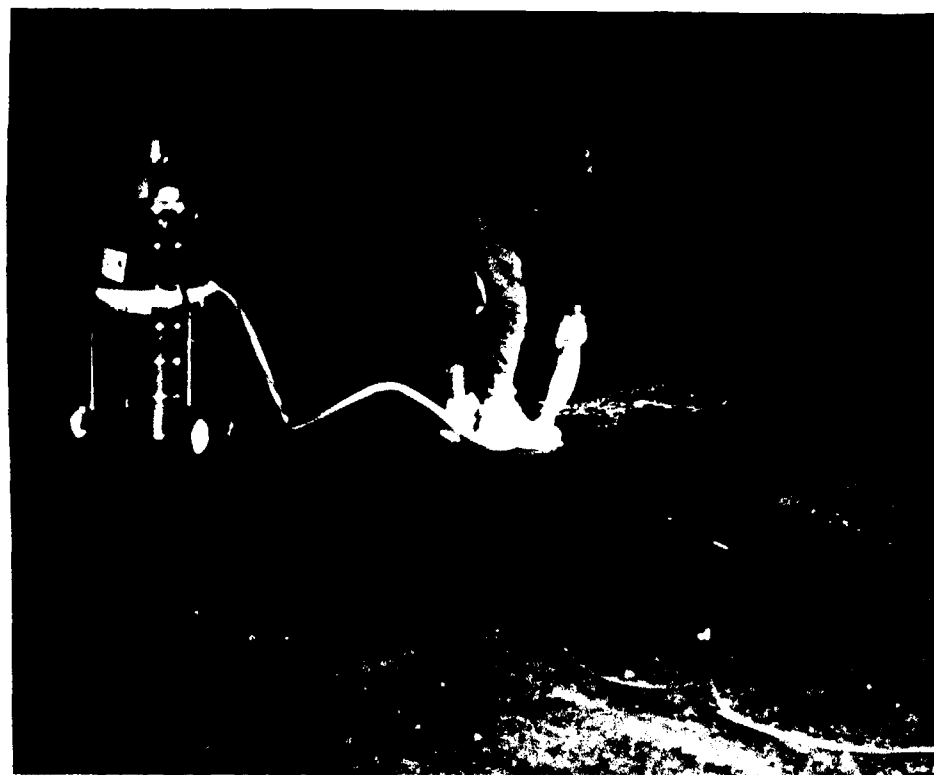
Time: 0115

Photographer: Brent B. Jacobs **Witness:** Carol Walsh

Film: Fuji **ASA:** 100

Location of Negative:
 TAT Office

TDD#: 04-8712-24



PHOTO# 3
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: ERCS technician vacuuming mercury from asphalt parking lot.

Location: Peachtree Industrial Mercury Spill

Date: 12/30/87

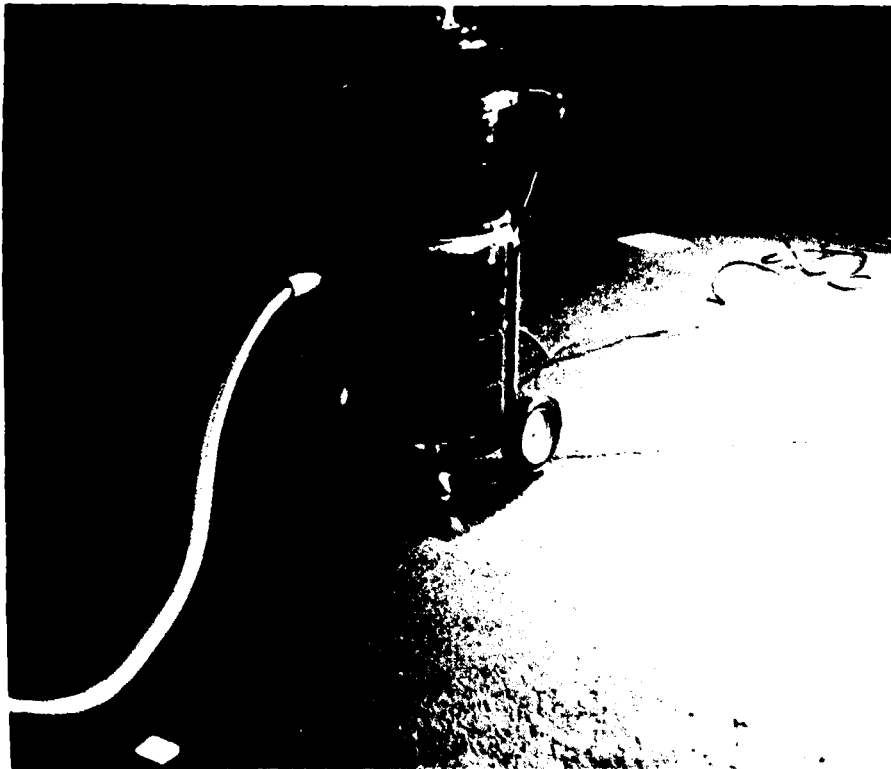
Time: 0345

Photographer: Brent B. Jacobs **Witness:** Carol Walsh

Film: Fuji **ASA:** 100

Location of Negative:
 TAT Office

TDD#: 04-8712-24



PHOTO# 4
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Mercury collected in container attached to vacuum unit.

Location: Peachtree Industrial Mercury Spill

Date: 12/30/87

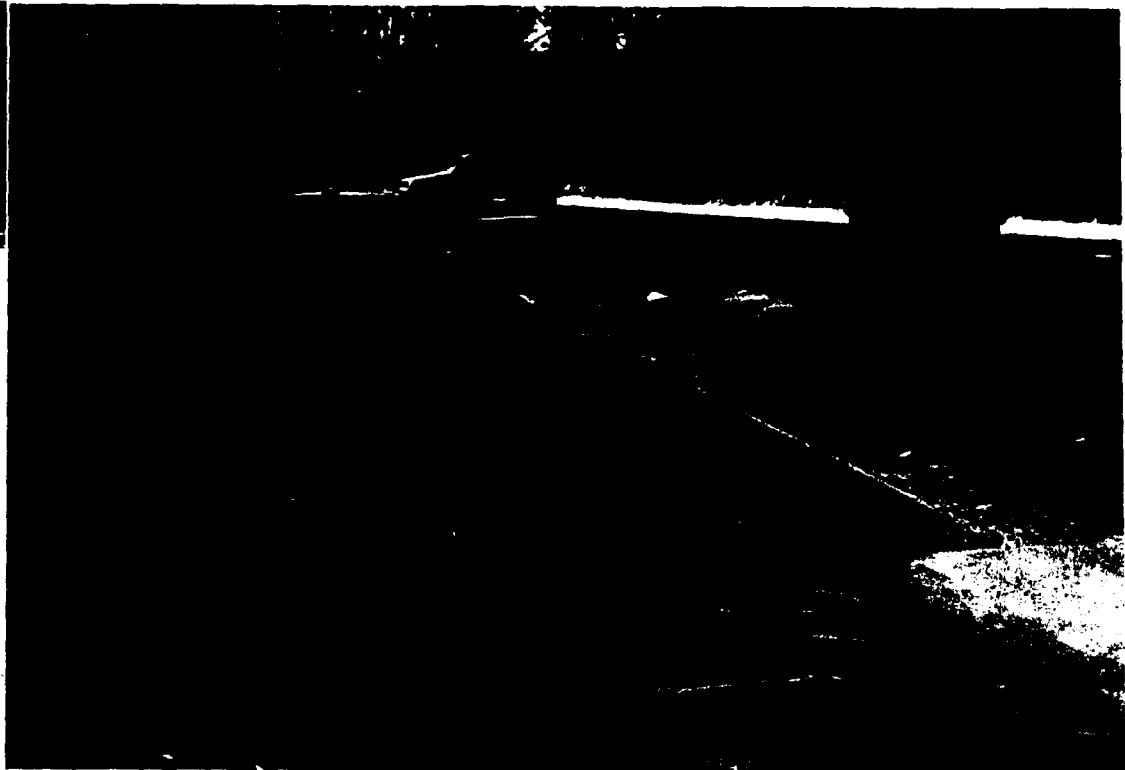
Time: 0230

Photographer: Brent B. Jacobs **Witness:** Carol Walsh

Film: Fuji **ASA:** 100

Location of Negative:
TAT Office

TDD#: 04-8712-24



PHOTO# 5
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Asphalt parking lot after removal.

Location: Peachtree Industrial Mercury Spill

Date: 12/30/87

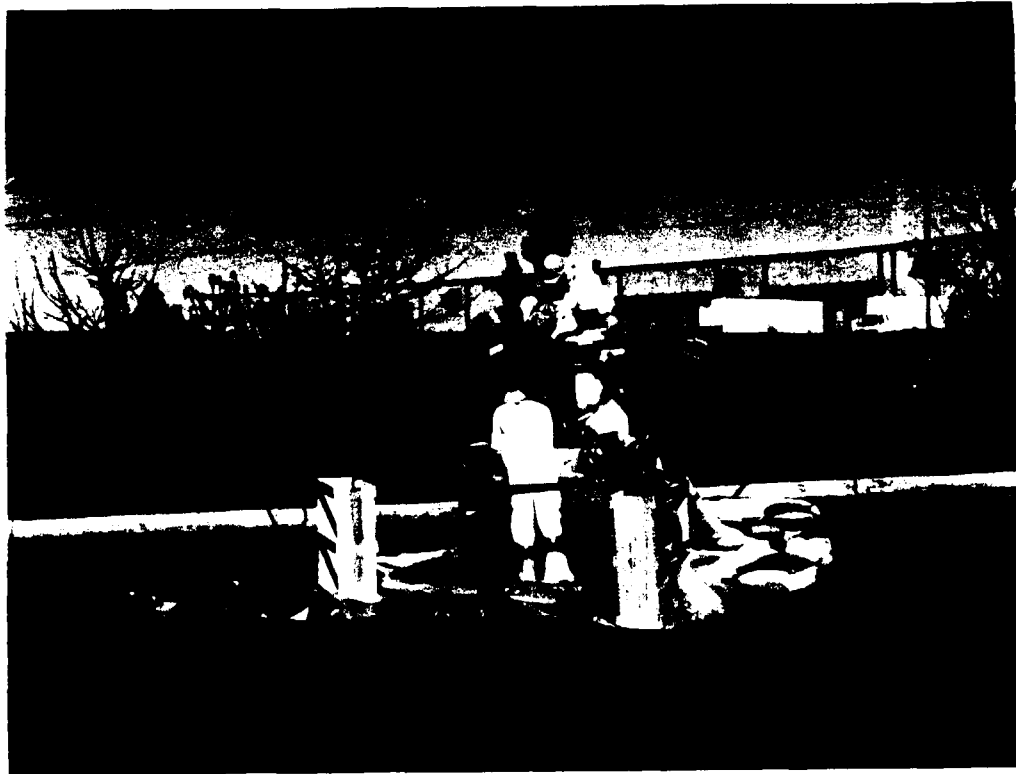
Time: 1000

Photographer: Brent B. Jacobs **Witness:** Carol Walsh

Film: Fuji **ASA:** 100

Location of Negative:
TAT Office

TDD#: 04-8712-24



PHOTO# 6
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: ERCS technicians in level "C" personnel protection gear decontaminating debris in dumpster where mercury was discarded.

Location: Peachtree Industrial Mercury Spill

Date: 12/30/87

Time: 1045

Photographer: Brent B. Jacobs **Witness:** Carol Walsh

Film: Fuji ASA: 100

Location of Negative:
TAT Office

TDD#: 04-8712-24



PHOTO# 7
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Mercury collected with the vacuum from the dumpster and decontamination process.

Location: Peachtree Industrial Mercury Spill

Date: 12/30/87

Time: 1215

Photographer: Brent B. Jacobs **Witness:** Carol Walsh

Film: Fuji ASA: 100

Location of Negative:
TAT Office

TDD#: 04-8712-24



PHOTO# 8
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Seven full bottles of mercury recovered from the dumpster. Lot #112587 is still on the bottles.

Location: Peachtree Industrial Mercury Spill

Date: 12/30/87

Time: 1225

Photographer: Brent B. Jacobs **Witness:** Carol Walsh

Film: Fuji ASA: 100

Location of Negative:
TAT Office

TDD#: 04-8712-24



PHOTO# 9
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Three empty bottles recovered from the dumpster. The mercury bottles have the same lot # as the full bottles.

Location: Peachtree Industrial Mercury Spill

Date: 12/30/87

Time: 1220

Photographer: Brent B. Jacobs **Witness:** Carol Walsh

Film: Fuji ASA: 100

Location of Negative:
TAT Office

TDD#: 04-8712-24



PHOTO# 10
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Shipping box in which the full bottles of mercury were found. Company's address is present on the lid.

Location: Peachtree Industrial Mercury Spill

Date: 12/30/87

Time: 1225

Photographer: Brent B. Jacobs **Witness:** Carol Walsh

Film: Fuji ASA: 100

Location of Negative:
TAT Office

TDD#: 04-8712-24



PHOTO# 11
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Shipping box with manufacturer and mercury label.

Location: Peachtree Industrial Mercury Spill

Date: 12/30/87

Time: 1225

Photographer: Brent B. Jacobs **Witness:** Carol Walsh

Film: Fuji ASA: 100

Location of Negative:
TAT Office

TDD#: 04-8712-24

ATTACHMENT B

Log Notes

December 28 1987 Tuesday

1520 TAT Tarab's received emergency response call to respond to a spill of mercury —

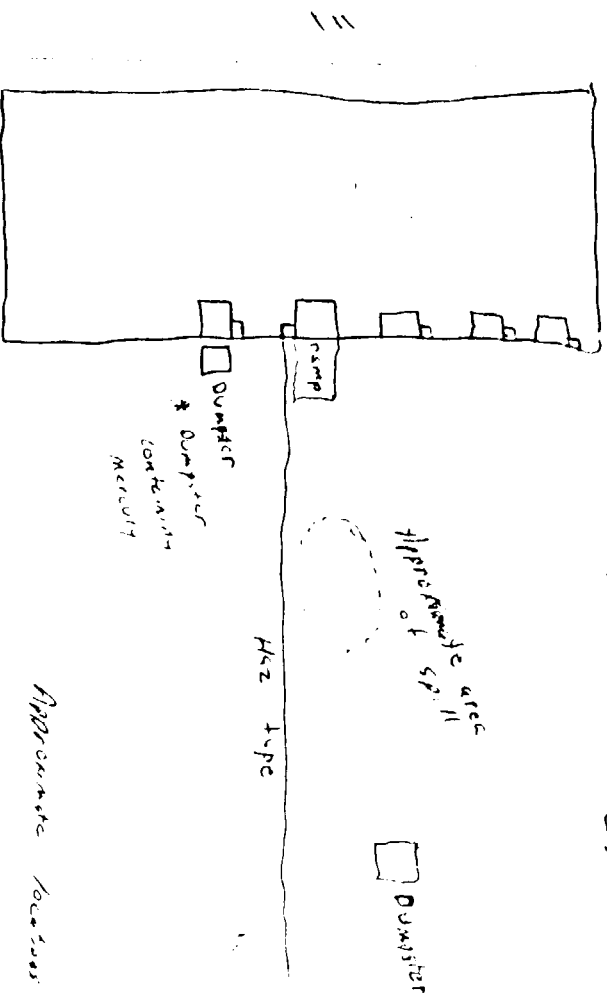
1550 TAT Teubi and Herman departed office to

6777 Beechree Ind Road in Winnett town,

1635 TAT's arrive on site and meet Carol Wurst OSC and Mark Smith EPO. Winnett FD on scene.

1645 OSC Welsh talked to several business at the location and they stated they did not use mercury. OSC stored the mercury going to call Ot Mckenzie (MERIS) to clean up the mercury.

1650 TAT observed spill from perimeter. The mercury is in the back parking lot of 6767 Beechree Industrial Bld.



Approximate locations

1655 Kolly Wilkison with Winnett Daily News off site

1725 Mark Smith with EPO off-site

1800 TAT's off site for dinner.

1810 OSC off site for dinner. Winnett

Fire Department remains on-site. OH
Materials due on site at 2300 hours.
Vacuum pump due at site at 2300
hours also. It is being flown in from
Detroit.

1900 THTs and OSC on site

1930 OSC received phone in. Guinnett County's
Haz Mat response truck from OH Materials.
OH stated equipment being flown in on
airplane from Detroit and should be on
site at 2300 hours. OSC would request
THTs to depart site and one (TAT Tachis)
return to site at 2300 hours to monitor
ERCS cleanup. THTs and OSC depart site.

Event B. *Final*

December 30 1987 Wednesday

- 0000 TAT Jacobs on site, CH Materials on site, Guinness Haz Mat team on site
- 0015 OSC on site
- 0030 Cliff with CH Materials on site
- 0115 ST tech(2) arrive on site with equipment
- 0120 CH crew setting up vacuum pump
- 0130 ERCS started vacuuming up mercury
- 0150 Bucky Thompson (CHM) arrived on site
- 0230 OSC Walsh provided TAT with a list of the companies at the house. The list was provided by the Guinness Fire Department Haz Mat Team. The Haz Mat data sheets on the companies indicate Jennifers Glass Works and Bevels Glass used mercury. Two former tenants also used mercury (Lab Transfer and Chemistry Products) according to haz mat data sheets.
- 0330 Bucky and Cliff off site
- 0340 Dumpster suspected to have mercury container was taped with hazard tape and ERCS checks the dumpster on 12/30/87 at 1000 hours
- 0400 OSC Walsh off-site
- 0410 ST techs completed vacuuming and area HTV sealer being sprayed on spill area surface to hold down fumes from any mercury possibly left behind
- 0420 Mercury collected from spill area placed in zip lock baggie and stored inside the sample jar.
- 0440 TAT and ERCS off site, Guinness Fire Department remains on site

0930 TAT arrived on site. Fine day experiment on site.

1015 CH materials arrived on site. Four trucks present. Crew spreading Visqueen and smother around the Dumpster before cleaning debris. Mercury will be under in metal bin and transferred to proper container. Temperature outside is 70°.

1040 EACS crew began sifting through dumpster starting at the top. Garbage is knocked off into the visqueen lined bin and then bagged. EACS crew in level C.

1045 CH with CH materials on site.

1050 EACS crew found box that is suspected to contain mercury. Approximately 50 lbs found in plastic bottles (six each). Label on box says Micromeritics, Instrumental Resources Co., PO 06195.

1115 Lot # on individual bottles is F112577.

All bottles have same lot number, 44.

Unbroken bottles and one broken bottle found. A total of seven full 5 lb bottles and three broken bottles were recovered. CH tech stated approximately 1 tablespoon of mercury in bottom of dumpster.

1150 CH crew preparing to vacuum dumpster and the bin.

1210 Vacuuming of Dumpster completed. Two sample jars of material collected from Dumpster and bin. Visqueen and Truck collected and bagged by CH. CH kept mercury and waste was sent disposed at a later date.

1215 TAT trucks talked to OSC Walsh at 1200

about disposal of garbage from dumpster
which started once mercury removed and
dumpster cleaned to put decommissioned in-
take in dumpster.

1225 OH crew completed work at site. (6:00 PM)
County Fire Department off-site.

1230 TAT and ERES off site. TAT returning to
Atlanta office.

1330 TAT arrived at office.

Summary

Seven foil bottles (2.268 kg each) of mercury
by D. F. Goldsmith + Metal Corporation for
#112587 and three empty bottles of the
same lot #112587 were found in the dumpster.
Address of Goldsmith is D. F. Goldsmith
Chemical + Metal Corp. 909 Pitner Avenue,
Evanston, Illinois 60002. The box the
mercury bottles were found in was addressed
to Micromeritics, 1 Micromeritics Dr.
Norcross, Ga. 30093 PO. 061919
ERES cleaned all debris from the dumpster
and collected in the bin when vacuumed
both clean. Mercury collected from this process
stored in sample bottles until disposed of.

Brent B. Reed 12/30/87

ATTACHMENT C

Table of Witnesses

Carol Walsh, OSC
U. S. Environmental Protection Agency
Emergency Response Branch, Region IV
345 Courtland Street
Atlanta, Georgia 30365
404/347-3931

Brent B. Jacobs, TAT
Virginia Harmon, TAT
Roy F. Weston, Inc./SPER Division
100 Atlanta Technology Center, Suite 120
1575 Northside Drive
Atlanta, Georgia 30318
404.352-4147

William Yeckes
Randy Bennett
Tim Bond
Mark McClendon
A. T. Fedrick
Bucky Thompson
Mike Feagles
O. H. Materials
1000 Holcomb Woods Pkwy, Suite 120
Roswell, Georgia 30076
404/641-1066

Joe Puritt
Philip Wood
Mike Etheridge
Joe Parks
Frank Daniel
Dwayne Morris
Ron Williams
Gwinnett County Hazardous Materials Response Team
6160 Crescent Drive
Norcross, Georgia 30071
404/448-9277

ATTACHMENT D
Site Safety Plan

WESTON SPER DIVISION
HAZARDOUS WASTE SITE INVESTIGATION AND EMERGENCY RESPONSE
HEALTH AND SAFETY PLAN

U.S. EPA CONTACT: Carey Walsh

Date of Inspection: 29 Dec 87 Time: 1545 TDD No. 87123-4

Original Safety Plan: Yes ☒ No ☐ PCS No. 1728

Admendment/Modification No. _____

SITE SAFETY COORDINATOR: Brent Jacobs

Site Name: Gwinnett County Mercury Spill

Site Address: Street No. 6767 Peachtree Industrial Blvd.
City Norcross
County Gwinnett
State Georgia Zip Code 30092

Site Contact: _____ Phone _____

Directions to Site: (Attach Map) Take I-45 N to 285 W.
Exit Peachtree Industrial Blvd. Take a right, go about 4 mi.
Site is on the left

SITE HISTORY: mercury spilled in parking lot area behind building

INCIDENT DESCRIPTION

TYPE: A) Spill ☒ Air Release _____ Fire _____ HW Site _____ Other _____
B) Assessment _____ Sampling _____ Emergency Response ☒ _____
Clean-up/Removal _____ Other (specify) _____
C) Urban/Residential _____ Commercial ☒ Industrial _____
Rural _____ Remote _____

PERSONNEL PHYSICAL SAFETY HAZARDS:

Heat _____ Cold ☒ Noise _____ Underground Utilities _____
Overhead Utilities _____ Heavy Equipment _____ Slip, Trip, Fall ☒ _____
Confined Spaces _____ Pressurized Airlines _____ Explosive _____
Ladders _____ Scaffolds _____ Unguarded Openings-Wall, Floor _____
Liquids in Open Containers, Ponds/Lagoons ☒ _____
Other _____

CHEMICAL CONTAMINANTS OF CONCERN

CONTAMINANT	TIV PEL	IDIH	PHYSICAL CHARACTERISTICS	ROUTE OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE	FIRST AID	INSTRUMENTS TO DETECT
Mercury (cont. Soil) Dust Hazard	0.5 mg/m ³	28 mg/m ³	Silvery Metallic liquid	Inh/abs/cou	Cough, Dysp, bron ch, Trem, IRR. irrec. Headache FAT. Weak	IRR run cont/water	NA - Thermal Desorp.

Description of Decontamination To Be Used:

SPECIFY PPE TYPE

TASK TO BE PERFORMED	ANTIC. LEVEL OF PROTECT.	CONVEYANCE	GLOVE IN/OUT.	AIR PURIF. RESPIRATOR CAPT/CANN
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ERCs monitoring from refinery D

Anticipated Monitoring

Radiation Meter [] CGI [] HNU [] _____ eV Probe OVA []

Detector Tube [] _____ Other _____

EMERGENCY PHONE NUMBERS: LOCATION PHONE NOTIFIED

FIRE Gwinnett County 6160 Crescent Dr 478-4277 Y

POLICE Gwinnett County 962-1900 N

AMBULANCE 963 0123 N

HOSPITAL Northside 1800 Johnson Ferry Rd 851-8000 N

CHEMICAL TRAUMA CAPABILITY? Y

DIRECTIONS TO HOSPITAL: (ATTACH MAP) RTE. VERIFIED BY _____ DATE _____

Take right on Peachtree Industrial Blvd (South) to I-285. Take I-285 west
to Peachtree Dunwoody (exit 20). Go south on Peachtree Dunwoody 1/2 mile to
I-285. Right on Johnson Ferry Rd. Hospital is 1/2 mile on right.

ADDITIONAL EMERGENCY PHONE CONTACTS:

CHEMTREC	(800) 424-9300
TSCA HOTLINE	(800) 424-9065, (202) 544-1404
ATSDR	(DAY) (404) 329-2888
	(NIGHT) (404) 566-7777
AT & F (EXPLOSIVES INFO.)	(800) 424-9555
NATIONAL RESPONSE CENTER	(800) 424-8802
WESTON MEDICAL EMERGENCY SERVICE	(513) 421-3063
WESTON 24 HOUR HOTLINE	(215) 524-1925, 1926
PESTICIDE INFORMATION SERVICE	(800) 845-7633
EPA ERT EMERGENCY	(201) 321-6660
RCRA HOTLINE	(800) 424-9346
CMA CHEMICAL REFERRAL CENTER	(800) 262-8200
NATIONAL POISON CONTROL CENTER	(800) 942-5969
U.S. DOT	(202) 366-0656 (Day only)

Prepared by: B. Jacobs Date: 12/29/87

Pre-Response Approval by: DDO Date: 12/29/87

TDD# 871224 ECS# 1428

OBSERVED CONDITIONS/ACTIVITIES

Describe Initial Conditions (Source/Type/Quantity): estimated
less than 1/2 pint of liquid mercury was dispersed
on the asphalt pavement of a parking lot.

DOCUMENTATION

PERFORMED BY: Brent Jacobs

Type: Photo ☒ Log Book ☒ Recorder _____ Video _____

PHYSICAL DESCRIPTION

Size of Site: 1 acre Topography _____
Terrain: flat Weather clear, 84°F, winds 2-10 MPH

Distance to nearest: Residence 1 MI School N/A Hospital 6 MILES

Public Building adjacent Other _____

Evacuation: Yes _____ No ☒ Number _____ By Whom _____

Nearest Waterway: N/A Distance: _____

<u>Condition</u>	<u>Observed</u>	<u>Potential</u>	<u>None</u>
Surface Water Contamination	_____	_____	<input checked="" type="checkbox"/>
Ground Water Contamination	_____	_____	<input checked="" type="checkbox"/>
Drinking Water Contamination	_____	_____	<input checked="" type="checkbox"/>
Air Contamination	_____	<input checked="" type="checkbox"/>	_____
Soil Contamination	_____	_____	<input checked="" type="checkbox"/>
Stressed Vegetation	_____	_____	<input checked="" type="checkbox"/>
Dead Fish, Other Animals	_____	_____	<input checked="" type="checkbox"/>

ACTIONS TAKEN ON SITE: (Attach Map of Site Control Zones)

Was Entry Made by TAT: YES _____ NO ☒

TASK CONDUCTED: Describe Specific PPE Used and Why

monitor ERCS cleanup

AIR MONITORING LOG

OVA Calibration _____
 HNU Calibration _____
 CGI Calibration _____

Background O₂ _____
Organics _____
Radiation _____

(ATTACH CALIBRATION DATA TO LOG)

OGI

SITE NAME

STATION/ LOCATION	DATE	TIME	NAME OF AIR MONITOR	TYPE OF EQUIPMENT (HNU (PROBE/SPAN), CGI, OVA, RAD MTR	READING	SUMMARY/COMMENTS

SAMPLING: CONDUCTED? YES _____ NO X

If Yes, Describe Sampling Method _____

Has Lab Been Notified of Potential Hazard Level? Yes _____ No _____ NA X

Note: This Health and Safety Plan was prepared for work to be conducted under the Technical Assistance Team (TAT) Contract 68-01-7367 Zone 1. Use of this plan by WESTON and its subcontractors on the TAT contract is intended to fulfill the OSHA requirements found in 29 CFR 1910.120. Items not specifically covered in this plan are included by reference to 29 CFR 1910 and 1926.

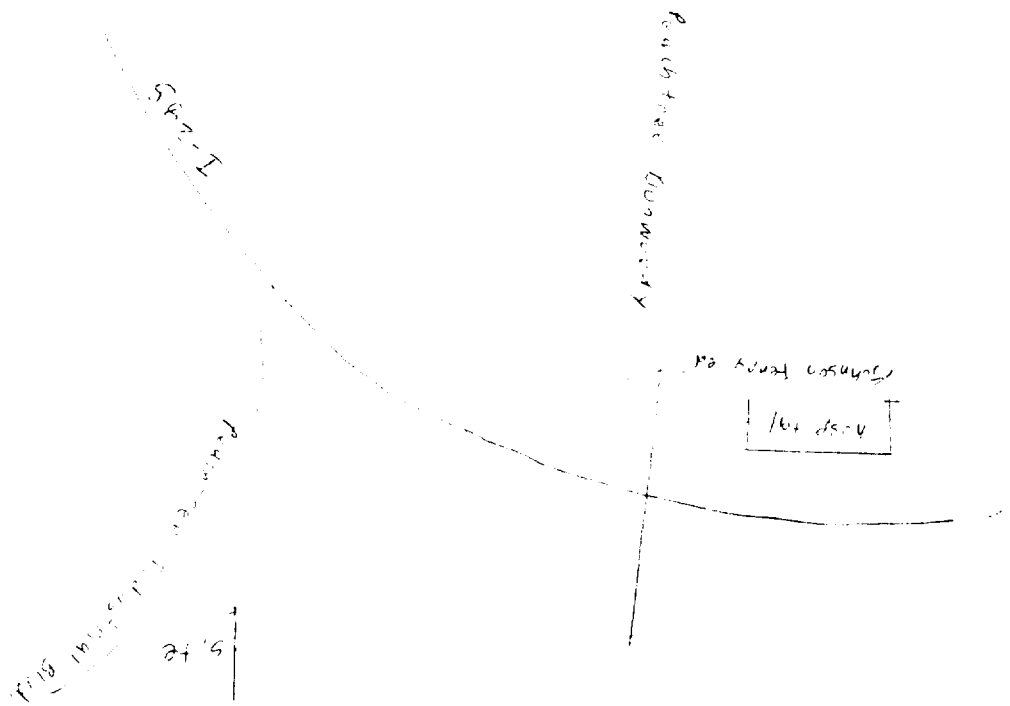
I have read and understand this safety plan.

<u>NAME (PRINTED)</u>	<u>SIGNATURE</u>	<u>AFFILIATION</u>	<u>DATE</u>
Virginia Harman	<i>Virginia Harman</i>	Weston-TAT	
Grant B. Jones	<i>Grant B. Jones</i>	Weston-TAT	

Final Submission of Plan by *Virginia Harman* Date Jan 4, 1988
Post Response Approval *David Roy Daniel* Date 01/04/88
Copy to ZPMO _____ Date _____

SPER HSO Reviewed by: _____ Date: _____
Followup Required: Yes _____ No _____
Followup Performed: Date: _____ With: _____
Comments: _____

Hospital Map Directions



scu-rbt LDLo: 10 mg/kg; wn-rbt LDLo: 2 mg/kg

Symptoms: Severe corrosion of mucous membranes, nausea and vomiting, spitting of blood, abdominal pain, diarrhea, kidney disorder, and exhaustion. Continual drinking of contaminated potable water may cause reduction of activity of alkali phosphatase in neurocytes.

Handling & Storage:

Keep containers tightly closed, and store in a well-ventilated place. Polyethylene containers are suitable for small quantities.

Explosion possibilities on contact with hazardous materials:

Phosphorus, antimony, arsenic, and silver salts - by heat or impact; alkali metals, alkali sulfides, acetylene, and ammonia - by impact; oxalic acid, metal oxalates, metal sulfites, metal phosphates by friction or impact.

Emergency Treatment and Measures:

A) Hygienic Precautions:

All workers must be familiarized with proper procedures for handling mercury compounds. Examine the atmosphere intermittently. Physical examinations and urinary mercury determination, at intervals determined by the degree of exposure. Preclude from exposure those individuals with diseases of liver, kidneys, lungs, and central nervous system. No eating or smoking in work area.

B) Hygienic Treatments (First Aid):

If swallowed, wash stomach first with 5% formaldehyde sodium sulfoxylate solution, then with 2% sodium carbonate solution, followed by ingestion of 250 cc of formaldehyde-sodium sulfoxylate solution. Administer dimercaprol at a dose of 4mg/kg of body weight (not to exceed 300 mg) every four hours the first day, every six hours the second day, and then every eight hours for one week. Check reduction of renal function causing accumulation of mercury. Penicillamine is reported effective. Watch electrolyte balance carefully.

Disposal and Waste Treatment

Dissolve in water after converting soluble nitrate if the compound is not water-soluble. Adjust the pH and precipitate mercury as mercury sulfide. Wash and dry the precipitate and return to the suppliers.

390 Mercury Hg

Synonym:

Quicksilver

Uses:

Manufacture of all mercury salts; mercury cells, electric switches, propellant, mercury vapor lamps, barometers, thermometers, medicine, amalgams, mercury boilers.

Properties:

Mol wt 200.59; sp gr 13.59 (20°C); mp -38.88°C; vapor pressure 0.000185 mmHg (0°), 0.001201 (20°), 0.006079 (40°), 0.02524 (60°); bp 356.7°C. Silvery, extremely heavy liquid; insol in hydrochloric acid; sol in sulfuric acid upon boiling; readily sol in nitric acid; insol in water, alcohol, ether.

Hazardous Potentials:

A) Flammability:

Fulminate or mercury-ammonio compounds are highly explosive and precautions should be taken accordingly against combinations of mercury, nitric acid and ethanol.

B) Toxicity:

TLV: 0.1 mg m^{-3}

TDL: ihl-hmn TCL_0 : 169 ug/m^3 40Y TFX:CNS

ipr-rat TDL_0 : 400 mg/kg/14DI TFX:NEO

Symptoms:

Acute:

Swallowing: burning in mouth and throat; thirst; shock; cardiac arrhythmias (disturbance of rhythm); nausea; vomiting; abdominal pain; bloody diarrhea; oliguria; hematuria; albuminuria; casts

Inhalation: Inflammation of the mouth; salivation; metallic taste; abdominal cramps and diarrhea; difficult breathing; cough; fever; restlessness; bronchitis and inflammation of the lungs.

Chronic:

Central nervous system: headache; dizziness; constriction of blood vessel disturbance; restlessness and irritability; sleeplessness; peripheral inflammation of the nerve; defective control of muscles; increase in deep-tendon reflexes; tremors; static intention; gross.

Gastrointestinal: increased salivation; stomatitis; inflammation of the gums, with blue line; lack of appetite; nausea; vomiting; diarrhea; occasionally damage to liver.

Genitourinary: proteinuria; hematuria; anuria.

Respiratory: Inflammation of the nose; loss of sense of smell; cough; fever.

Eye: mercurialentis--deposit of mercury on anterior and posterior surfaces of lens; constriction of visual fields; color scotomata (blind spot).

Skin: erythematous papular and vesicular lesions.

Handling & Storage:

Keep containers closed. (small quantities are preferably stored in polyethylene bottle.) Cover the surface with water as much as possible to protect evaporation. Maintain good ventilation. Close attention should be paid to maintenance and cleaning of apparatus.

Hazardous reactions with:

nitrites and chlorates heating sparks or ignition

Wear rubber gloves, self-contained breathing apparatus

Emergency Treatment and Measures:

A) Hygienic Precautions:

Adequate ventilation. Housekeeping in plant must be meticulous and all spills must be cleaned up promptly. Air must be sampled frequently.

No eating or smoking in work areas. Protective clothing with special lockers and bathing facilities. Physical examinations of exposed personnel at intervals determined by the degree of exposure, including determinations of mercury in urine as well as neurologic evaluations. Preclude from exposure those individuals with diseases of liver, kidneys, lungs and nerves.

B) Hygienic Treatments (First Aid):

Gastric lavage, if swallowed, with 5% solution of sodium formaldehyde sulfoxylate, then with 2% solution of sodium bicarbonate, finally leaving 250 cc of sodium formaldehyde sulfoxylate in the stomach; starch-retention enemas for diarrhea; Antidote for poisoning by arsenic and heavy metals (dimercaprol) 4 mg/kg of body weight (but not exceed 300 mg in a single dose) every 4 hours the first day, every 6 hours the second day; guard against accumulation in patients with reduced kidney function. Electrolyte balance must be watched carefully.

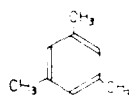
Spills and Leakage or Disposal and Waste Treatment:

Collect and store immediately by using of suction pump and aspirator bottle with long capillary tube. For the fine drop of mercury in unaccessible site (crack, etc.), treat with calcium polysulfide and excess sulfur. Keep all spilled or disposed mercury in a tightly stoppered bottle for sale or purification.

391 Mercury fulminate $\text{Hg}(\text{CNO})_2$

Synonym: Mercuric cyanate.
Uses: Percussion cap, explosive.
Properties: Mol wt 284.65; sp gr 4.42; mp explodes. Gray crystalline powder; sol in alcohol, ammonium hydroxide and warm water; sparingly sol in cold water.
Hazardous Potentials:
 A) Flammability: Explodes when dried.
 B) Toxicity: Highly toxic.
Handling & Storage: Keep moist till used.
 Wear rubber gloves, self-contained breathing apparatus and coveralls. Do not contaminate air and water with this chemical.
Spills and Leakage or Disposal and Waste Treatment: Dissolve in water after converting soluble nitrate if the compound is not water-soluble. Adjust the pH and precipitate mercury as mercury sulfide. Wash and dry the precipitate and return to the suppliers.

392 Mesitylene



Synonym: 1,3,5-Trimethylbenzene.
Uses: Dyes, pigments, manufacture of medical and industrial drugs.

MERCURY

Chemical Name and CAS Number	Formula	Source	Odors
Sulfuric Acid	H_2SO_4	Sulfuric Acid	None
<p>AVOID CONTACT WITH EYES. Flush eyes promptly away. Stop discharge if possible. Inhalation: Move to fresh, fumes-free area. Notify local health and wildlife authorities.</p>			
Fire	Not flammable		
Exposure	<p>CALL FOR MEDICAL AID IMMEDIATE Effects of exposure may be delayed.</p>		
Water Pollution	<p>HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if in water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.</p>		

<p>1. RESPONSE TO DISCHARGE</p> <p>See Response Methods Handbook, CG-446-4.</p> <p>Should be removed. Chemical and physical trainer.</p>	<p>2. LABELS</p> <p>No hazard label required by Code of Federal Regulations.</p>
<p>3. CHEMICAL DESIGNATIONS</p> <p>3.1 Synonyms: Quickstrike</p> <p>3.2 Coast Guard Compatibility Classification: Not applicable</p> <p>3.3 Chemical Formula: HY</p> <p>3.4 IMCO United Nations Numerical Designation: Not listed</p>	<p>4. OBSERVABLE CHARACTERISTICS</p> <p>4.1 Physical State (as shipped): Liquid</p> <p>4.2 Color: Silver</p> <p>4.3 Odor: None</p>
<p>5. HEALTH HAZARDS</p>	
<p>5.1 Personal Protective Equipment: Avoid contact in liquid with skin. For safety use chemical cartridges when wearing respirator.</p> <p>5.2 Symptoms Following Exposure: No immediate symptoms. As poisoning becomes established, slight muscular tremors, loss of appetite, nausea, and diarrhea are observed. Pseudo, kidney and cardiovascular disturbances may occur.</p> <p>5.3 Treatment for Exposure: Emesis and water.</p> <p>5.4 Toxicity by Inhalation (Threshold Limit Value): Not given.</p> <p>5.5 Short-Term Inhalation Limits: Data not available.</p> <p>5.6 Toxicity by Ingestion: No immediate toxicity.</p> <p>5.7 Late Toxicity: Descriptions of effects poisoning.</p> <p>5.8 Vapor (Gas) Irritant Characteristics: None.</p> <p>5.9 Liquid or Solid Irritant Characteristics: None.</p> <p>5.10 Odor Threshold: Not specified.</p>	

<p style="text-align: center;">6. FIRE HAZARDS</p> <p>6.1 Flash Point: Not flammable</p> <p>6.2 Flammable Limits in Air: Not flammable</p> <p>6.3 Fire Extinguishing Agents: Not applicable</p> <p>6.4 Fire Extinguishing Agents Not to be Used: Not pertinent</p> <p>6.5 Special Hazards of Combustion Products: Not pertinent</p> <p>6.6 Behavior in Fire: Not flammable</p> <p>6.7 Ignition Temperature: Not flammable</p> <p>6.8 Electrical Hazard: Not pertinent</p> <p>6.9 Burning Rate: Not flammable</p>	<p style="text-align: center;">8. WATER POLLUTION</p> <p>8.1 Aquatic Toxicity: Not applicable</p> <p>8.2 Waterway Toxicity: Not applicable</p> <p>8.3 Biological Oxygen Demand (BOD): Not</p> <p>8.4 Food Chain Concentration Potential: Metals and pesticides are not and herbicides are also generally considered to be a problem to aquatic life.</p>
<p>9. SELECTED MANUFACTURERS</p> <p>1. Rohm and Haas Company and Kentucky Williamson 100 Belmont Ave. Philadelphia, N.Y. 19107</p> <p>2. Firestone Molecular and Thermoplastics Phillipsburg, Tennessee 290 Park Ave. New York, N.Y. 10017</p> <p>3. SE Industries 10000 E. Duane Wauwatese, WI 53095 Chicago, Illinois</p>	
<p style="text-align: center;">7. CHEMICAL REACTIVITY</p> <p>7.1 Reactivity with Water: No reaction</p> <p>7.2 Reactivity with Common Materials: No reaction</p> <p>7.3 Stability During Transport: Stable</p> <p>7.4 Neutralizing Agents for Acids and Caustics: Not pertinent</p> <p>7.5 Polymerization: Not pertinent</p> <p>7.6 Inhibitor of Polymerization: Not pertinent</p>	<p style="text-align: center;">10. SHIPPING INFORMATION</p> <p>10.1 Grades or Purity: Bulk</p> <p>10.2 Storage Temperature: Ambient</p> <p>10.3 Inert Atmosphere: Not recommended</p> <p>10.4 Venting: None</p>
<p style="text-align: center;">11. HAZARD ASSESSMENT CODE</p> <p><small>(See Hazard Assessment Handbook, CG 446-1)</small></p> <p style="text-align: center;">A X</p>	<p style="text-align: center;">13. PHYSICAL AND CHEMICAL PROPERTIES</p> <p>13.1 Physical State at 15°C and 1 atm: Liquid</p> <p>13.2 Molecular Weight: 108.16</p> <p>13.3 Boiling Point at 1 atm: 171.3°C (338.3°F)</p> <p>13.4 Freezing Point: 14.1°C (57.4°F)</p> <p>13.5 Critical Temperature: 264.3°C (507.7°F)</p> <p>13.6 Critical Pressure: 20.56 kg/cm² (295.4 psi) (2.96 x 10⁶ MN/m²)</p> <p>13.7 Specific Gravity: 0.909 (at 15°C)</p> <p>13.8 Liquid Surface Tension: 41.4 dyne/cm (at 15°C)</p> <p>13.9 Liquid-Water Interfacial Tension: 37 dyne/cm (at 15°C)</p> <p>13.10 Vapor (Gas) Specific Gravity: Not pertinent</p> <p>13.11 Ratio of Specific Heats of Vapor/Gas: Not pertinent</p> <p>13.12 Latent Heat of Vaporization: Not pertinent</p> <p>13.13 Heat of Combustion: Not applicable</p> <p>13.14 Heat of Decomposition: Not applicable</p> <p>13.15 Heat of Solution: Not applicable</p> <p>13.16 Heat of Polymerization: Not applicable</p>
<p style="text-align: center;">12. HAZARD CLASSIFICATIONS</p> <p>12.1 Code of Federal Regulations: (IRM) B</p> <p>12.2 NAS Hazard Rating for Bulk Water Transportation: Not listed</p> <p>12.3 NFPA Hazard Classifications: Not listed</p>	<p style="text-align: right;"><small>CG 446-1 (REV. 1-82)</small></p>

ROUS HYPOPHOSPHATE. $\text{Hg}_4\text{P}_2\text{O}_8$, mw:

— HIGH. See mercury compounds. Unstable. Decomp explosively. [19]

ROUS IODATE. Yellowish crystals. $\text{Hg}_2(\text{IO}_3)_2$, mw: 551.16, mp: decomp.

— See mercury compounds, inorganic, and iodates.

ROUS IODIDE. Yellow tetragonal crystals or shous powder. HgI_2 , mw: 327.50, mp: sublimes @ 200°, decomp @ 290°, d: 7.70.

Acute tox data: Oral LD_{50} (mouse) = 110 mg/kg; LD_{50} (mouse) = 50 mg/kg. [3]

— HIGH via oral and ip routes. See mercury compounds, inorganic, and iodides.

ROUS MONOHYDROGEN-*o*-ARSENATE. Yellow crystals. Hg_2HASO_4 , mw: 541.14.

— HIGH. See arsenic compounds and mercury compounds, inorganic.

ROUS NITRATE. Short, colorless, efflorescent crystals. $\text{Hg}_2(\text{NO}_3)_2 \cdot 2\text{H}_2\text{O}$, mw: 561.26, mp: 14.79 @ 4°.

Acute tox data: Oral LD_{50} (rat) = 297 mg/kg; oral LD_{50} (mouse) = 388 mg/kg; ip LD_{50} (mouse) = 5 mg/kg. [3]

— HIGH via oral and ip routes. See mercury compounds, inorganic, and nitrates. Violent reaction with C, P. [19]

ROUS NITRATE, AMMONIATED. Syn: *precipitate*. Black powder. Hg_2ONH_2 , mw: 958.4.

— See mercury compounds, inorganic, and nitrates.

ROUS NITRITE. Yellow crystals. $\text{Hg}_2(\text{NO}_2)_2$, mw: 324, mp: decomp @ 100°, d: 7.33.

— HIGH. See mercury compounds, inorganic, and nitrates.

ROUS OXALATE. White crystals. $\text{Hg}_2\text{C}_2\text{O}_4$, mw: 324.

— See oxalates and mercury compounds, inorganic.

ROUS OXIDE, BLACK. Black to grayish-black powder. Hg_2O , mw: 417.22, mp: decomp @ 14.5°.

— HIGH. See mercury compounds, inorganic, and oxidizers. Mod. by chemical reaction; an oxidizer. Reacts violently with H_2O_2 , K, Na, S, BaO + air. [19]

— Hazard: Dangerous; when heated to decomp. emits highly toxic fumes of mercury; can react with organic materials.

MERCUROUS PHOSPHATE. Heavy white powder. Hg_3PO_4 , mw: 696.85.

THR = See mercury compounds, inorganic.

MERCUROUS SULFATE. White crystalline powder. Hg_2SO_4 , mw: 497.28, mp: decomp, d: 7.56.

THR = See mercury compounds, inorganic, and sulfates.

MERCUROUS SULFIDE. Black crystals. Hg_2S , mw: 433.24, mp: decomp.

THR = See mercury compounds, inorganic, and sulfides.

MERCUROUS TARTRATE. Yellowish-white crystalline powder. $\text{Hg}_2\text{C}_4\text{H}_4\text{O}_8$, mw: 549.29.

THR = See mercury compounds, organic.

MERCURY. Silvery liquid, metallic element. Hg, atwt: 200.7, mp: -38.89°, bp: 356.9°, d: 13.546, vap. press: 1 mm @ 126.2°.

Acute tox data: Oral LD_{50} (human) = 1429 mg/kg; inhal TC_{50} (human) = 0.17 mg m^3 for 40 yrs → CNS problems; iv TD_{50} (human) = 29 mg/kg → GI symptoms. [3]

THR = HIGH to CNS, GI tract. See mercury compounds. An exper neo. [3] Reacts violently with acetylene, NH_3 , BPI_2 , Cl_2 , ClO_2 , CH_3N_3 , Na_2C_2 , nitromethane (butyne diol + acid). [19]

Radiation Hazard: For permissible levels, see Section 5, Table 5A.5. Artificial isotope ^{201}Hg , $T_{1/2}$ = 47d. Decays to stable ^{201}Tl by emitting β 's of 0.21 MeV. Emits γ 's of 0.28 MeV.

Disaster Hazard: Dangerous; when heated emits highly toxic fumes.

MERCURY ACETAMIDE. White powder.

CH_3CONHg , mw: 257.7.

THR = HIGH. See mercury compounds, organic.

MERCURY ACETATE. See mercurous acetate or mercuric acetate.

MERCURY ALANINE. See mercury- α -aminopropionate.

MERCURY-*p*-AMINOPHENOL ARSENATE. See mercury atoxylate.

MERCURY- α -AMINOPROPIONATE. Syn: *mercury alanine*. White crystals, water-sol.

$\text{Hg}[\text{CH}_2\text{CH}(\text{NH}_2)\text{COO}]_2$, mw: 374.8.

THR = HIGH. See mercury compounds, organic.

MERCURY, AMMONIATED. See mercuric ammonium chloride.

MERCURY ANTIMONY SULFIDE. Gray-black powder. Mixture of equal parts of black mercury sulfide and gray antimony sulfide.

THR = See mercury compounds, antimony and sulfides.

Job safety and health protection

Proposed Penalty:

The Act provides for mandatory penalties against employers of up to \$1,000 for each serious violation and for optional penalties of up to \$1,000 for each nonserious violation. Penalties of up to \$1,000 per day may be proposed for failure to correct violative conditions within the proposed time period. Also, any employer who willfully or repeatedly violates the Act may be assessed penalties of up to \$10,000 for each such violation.

The OSHA citation must be prominently displayed in or near the place of a repeated violation for 30 days, or until it is corrected, whichever is later. If both employees or caregivers may read them.

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Criminal penalties are also provided for in the Act. Any willful violation resulting in death of an employee upon conviction, is punishable by a fine of not more than \$10,000 or by imprisonment for not more than six months, or by both. Conviction of an employer after a first conviction doubles these maximum penalties.

Voluntary Activity:

While providing penalties for violations, the Act also encourages efforts by labor and management, before an OSHA inspection, to reduce injuries and illnesses arising out of employment.

The Department of Labor encourages employers and employees to reduce workplace hazards voluntarily and to develop and improve safety and health programs in all workplaces and industries.

Such cooperative action would initially focus on the identification and elimination of hazards that could cause death, injury, or illness to employees and supervisors. There are many public and private organizations that can provide information and assistance in this effort, if requested.

More Information:

Additional information and copies of the Act, specific OSHA safety and health standards, and other applicable regulations may be obtained from your employer or from the nearest OSHA Regional Office in the following locations:

Atlanta, Georgia
Boston, Massachusetts
Chicago, Illinois
Dallas, Texas
Denver, Colorado
Kansas City, Missouri
New York, New York
Philadelphia, Pennsylvania
San Francisco, California
Seattle, Washington

Telephone numbers for these offices and additional Area Office locations are listed in the telephone directory under the United States Department of Labor in the United States Government listing.

Washington, D.C.
1981
OSHA 2203



Raymond J. Donovan

Raymond J. Donovan
Secretary of Labor

U. S. Department of Labor
Occupational Safety and Health Administration

The Occupational Safety and Health Act of 1970 provides job safety and health protection for workers through the promotion of safe and healthful working conditions throughout the Nation. Requirements of the Act include the following:

Employers:

Each employer shall furnish to each of his employees employment and a place of employment free from recognized hazards that are causing or are likely to cause death or serious harm to his employees; and shall comply with occupational safety and health standards issued under the Act.

Employees:

Each employee shall comply with all occupational safety and health standards, rules, regulations and orders issued under the Act that apply to his own actions and conduct on the job.

The Occupational Safety and Health Administration (OSHA) of the Department of Labor has the primary responsibility for administering the Act. OSHA issues occupational safety and health standards, and its Compliance Safety and Health Officers conduct routine inspections to ensure compliance with the Act.

Inspection:

The Act requires that a representative of the employer and a representative authorized by the employees be given an opportunity to accompany the OSHA inspector for the purpose of aiding the inspection.

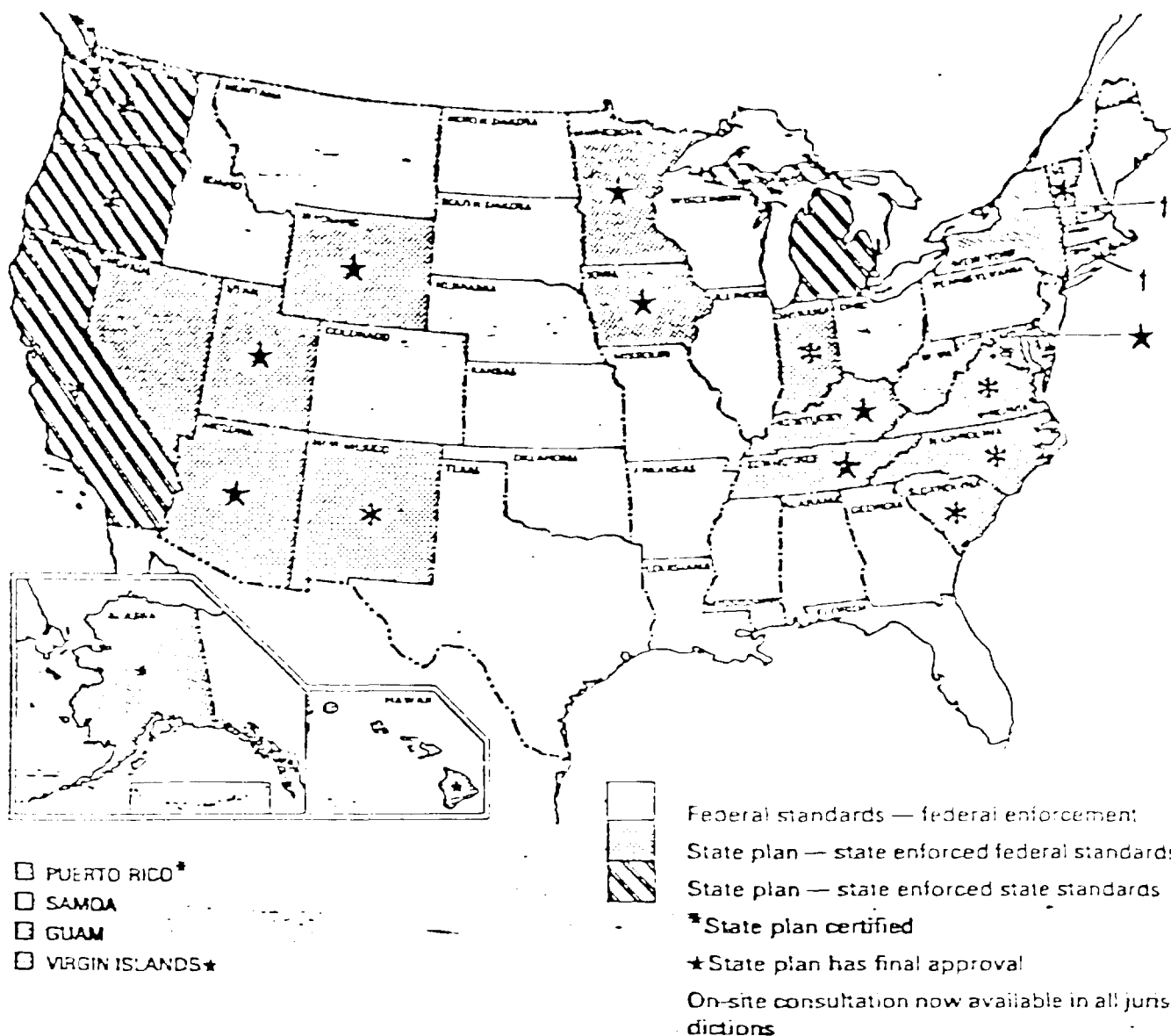
When there is no authorized employee representative, the OSHA Compliance Officer must consult with a reasonable number of employees concerning safety and health conditions in the workplace.

Complaint:

Employees or their representatives have the right to file a complaint with the nearest OSHA office requesting an inspection if they believe unsafe or unhealthy conditions exist in their workplace. OSHA will withhold, on request, names of employees complaining.

The Act provides that employees may not be discharged or discriminated against in any way for filing safety and health complaints or otherwise exercising their rights under the Act.

An employee who believes he has been discriminated against may file a complaint with the nearest OSHA office within 30 days of the alleged discrimination.



FEDERAL OSHA AND STATE PLANS JURISDICTIONS

The above map represents the current status of jurisdictional areas for applicable OSHA or state regulations, inspections, and enforcement. At present, only four states (Washington, Oregon, California, and Michigan) have approved plans which differ significantly from federal standards.

All of the states are monitored by OSHA to determine state plan qualification. State plans must be judged "at least as effective as" the federal program in order to be approved. A state plan may receive OSHA approval by demonstrating it will meet all requirements within three years. After completing these steps and operating its program at a fully effective level for at least one year, federal enforcement will end in the areas covered by the state plan. OSHA then continues its monitoring to determine when the plan should be certified and when it should receive final approval.

† Connecticut and New York — state plan covers employees of state only; all other employees are under federal OSHA jurisdiction.

ATTACHMENT E

Polrep

POLREP #1

Peachtree Industrial Mercury Spill
Norcross, Georgia
Emergency Response

Attn: George Moein and Tim Fields

I Situation (1400 hours, 12/31/87)

A. Personnel on scene:

EPA-1 Georgia EPD-1 TAT-1 ERCS-4
Gwinnett County Hazardous Material Response Team-2

B. Weather: Sunny, high in 50's, low in upper 20's

II Actions Taken

On 12/29/87 at 1530 hours EPA, TAT, Georgia EPD, and Gwinnett County Hazardous Materials Response Team responded to a mercury spill at 6767 Peachtree Industrial Boulevard, Gwinnett County, Norcross Georgia. Approximately one pint of mercury was spilled behind several businesses at the 6767 address. The mercury was spilled from a dumpster onto the asphalt parking lot in the rear of the building.

After the initial site investigation OSC Walsh determined the ERCS contractor was needed to clean up the spill. The ERCS contractor mobilized a vacuum unit to the site to collect the mercury from the parking lot. An 8 oz jar of mercury weighing approximately 12-14 lbs was collected from the parking lot. The parking area was then sealed with a sealer. The dumpster that the mercury was suspected of spilling from was then sealed and guarded all night.

On 12/30/87 ERCS decontaminated the debris in the dumpster. After completing this process, the dumpster was then vacuumed clean. The mercury from the decontamination process was collected and stored in sample jars. In addition to this collected mercury, 35 lbs of mercury still in the original shipping containers was found in the dumpster. The mercury was in plastic coated bottles. Seven full bottles weighing approximately 5 lbs each and three empty bottles were recovered from the dumpster. All pertinent information from the packaging and bottles was photographed and recorded. Disposal of the mercury is pending disposal options.

Total Superfund monies spent is approximately \$8,000.

POLREP #2

Peachtree Industrial Mercury Spill
Norcross, Georgia
Emergency Response

Attn: Bruce Kulpan, Bob Jordan and Tim Fields

I Situation (1430 hours, 03/28/88)

II Actions Taken

On 12/29/87 at 1530 hours EPA, TAT, Georgia EPD, and Gwinnett County Hazardous Materials Response Team responded to a mercury spill at 6767 Peachtree Industrial Boulevard, Gwinnett County, Norcross Georgia. Approximately one pint of mercury was spilled behind several businesses at the 6767 address. The mercury was spilled from a dumpster onto the asphalt parking lot in the rear of the building.

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On 02/24/88 ERCS sold the recovered mercury to D.F. Goldsmith in Evanston, Illinois for recycling. The money from the sale was credited to the EPA by the ERCS contractor. A criminal investigation is currently ongoing.

Total Superfund monies spent is approximately \$10,000.

ATTACHMENT F

Media Coverage

Mercury is found leaking from dumpster

Gwinnett Bureau

Between 35 and 40 pounds of mercury was discovered leaking from a dumpster behind a Gwinnett County business, and it took nearly 24 hours and equipment shipped in by federal officials to clean it up, officials said Wednesday.

Lt. Henry Argo, Gwinnett fire department spokesman, said the spill, behind Jennifer Glass Works, 6767 Peachtree Industrial Blvd., was reported about 2:03 p.m. Tuesday.

Firefighters, who originally thought only about a pint of mercury was involved, cordoned off the area. The federal Environmental Protection Agency (EPA) flew in a mercury vacuum and testing equipment to clean up the spill, Argo said.

The spill was cleaned up by 1:30 p.m. Wednesday, Argo said. Mercury is toxic if eaten, inhaled or absorbed through the skin and can only be disposed of by following EPA guidelines.